

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Thomas Wolff	
Serial No.:	10/771,712	Confirmation No.: 4129
Filed:	February 4, 2004	
Patent No.:	7,186,291	Art Unit: 1724
Issued:	March 6, 2007	Examiner: F.M. Lawrence

Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT TO
37 C.F.R. § 1.323

Dear Sir or Madam:

Upon reviewing the above-identified patent, Patentee noted errors which should be corrected.

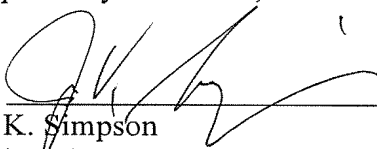
--Under "Assignee", please delete "Helsa-Automotive GmbH & Co." and insert "Helsa-Automotive GmbH & Co. KG".--

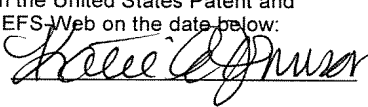
This error is either of clerical or typographical nature or a mistake of minor character. It is submitted that this error involves changes which would not constitute new matter or require reexamination.

Patentee respectfully solicits the granting of the requested Certificate of Correction. Enclosed please find a check in the amount of \$100.00 as the fee under 37 CFR §1.20(a) for the Certificate of Correction. Any additional fees may be charged to the deposit account of the undersigned firm of attorneys, Deposit Account No. 06-2375.

Respectfully submitted,

Dated: March 26, 2007

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<p>CERTIFICATE OF ELECTRONIC TRANSMISSION 37 C.F.R. § 1.8</p> <p>I hereby certify that this correspondence is being electronically filed with the United States Patent and Trademark Office via EFS-Web on the date below:</p> <p><u>March 26, 2007</u> Date</p> <p></p>
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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,186,291
APPLICATION NO. : 10/771,712
ISSUE DATE : March 6, 2007
INVENTOR(S) : Thomas Wolff

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Assignee: Helsa-Automotive GmbH & Co. KG

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US007186291B2

(12) **United States Patent**
Wolff

(10) **Patent No.:** **US 7,186,291 B2**
(45) **Date of Patent:** **Mar. 6, 2007**

(54) **FUEL TANK VENTING SYSTEM AND AN
ADDITIONAL FILTER ELEMENT
THEREFOR**

(75) **Inventor:** **Thomas Wolff, Munchberg (DE)**

(73) **Assignee:** **Helsa-Automotive GmbH & Co.,
Gefrees (DE)**

(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 200 days.

(21) **Appl. No.:** **10/771,712**

(22) **Filed:** **Feb. 4, 2004**

(65) **Prior Publication Data**

US 2005/0132888 A1 Jun. 23, 2005

(30) **Foreign Application Priority Data**

Dec. 22, 2003 (DE) 103 61 090

(51) **Int. Cl.**
B01D 53/02 (2006.01)

(52) **U.S. Cl.** **96/132; 96/134; 96/153;**
502/416

(58) **Field of Classification Search** 96/108,
96/132, 134, 135, 147, 153; 95/901; 123/518-521;
502/416

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,386,947 A 6/1983 Mizuno et al.

5,710,092 A * 1/1998 Baker 502/416
5,925,168 A * 7/1999 Judkins et al. 95/27
6,030,698 A * 2/2000 Burchell et al. 428/315.5
6,057,262 A * 5/2000 Derbyshire et al. 502/423
6,251,822 B1 * 6/2001 Peng et al. 502/423
6,503,301 B2 1/2003 Uchino et al.
6,537,355 B2 3/2003 Scardino et al.
6,540,815 B1 4/2003 Hiltzik et al.
6,812,187 B1 * 11/2004 Pak et al. 502/180
2001/0042440 A1 * 11/2001 Miyazawa et al. 95/139
2003/0116021 A1 * 6/2003 Oda et al. 96/134
2003/0196553 A1 * 10/2003 Mochizuki et al. 96/153

FOREIGN PATENT DOCUMENTS

DE 19952092 10/2000
DE 10049537 4/2002
DE 10104882 8/2002

* cited by examiner

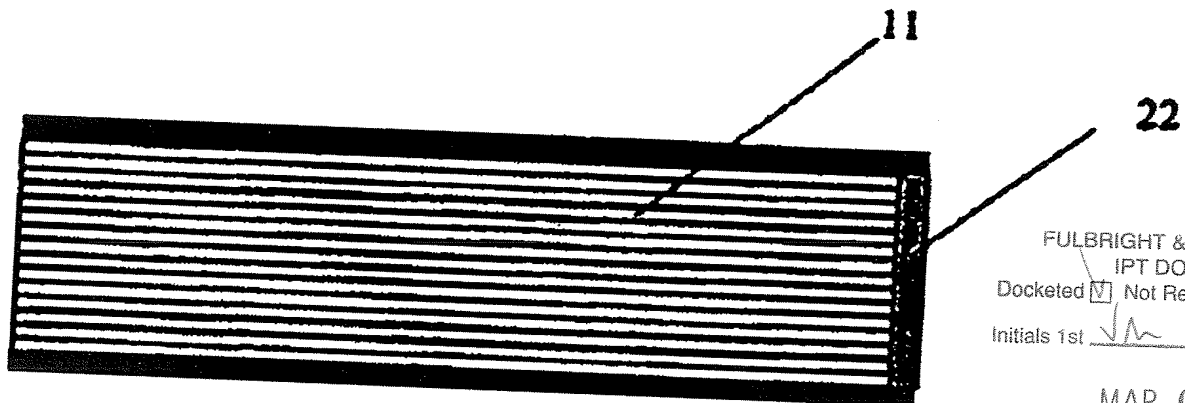
Primary Examiner—Frank M. Lawrence

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Jaworski LLP

(57) **ABSTRACT**

Described is an additional filter element for a filter apparatus
for reducing emissions from a motor vehicle tank venting
system. The additional filter element is connected to a main
activated carbon filter and has adsorbents which, to achieve
a high working capacity, in particular at 42° C., has a high
micropore volume. To retain a residual loading possibly
present in the micropores the adsorbents further have a
mesopore volume. The micropore volume is at least 0.4
cm³/g and the mesopore volume is at a maximum 0.95
cm³/g.

19 Claims, 6 Drawing Sheets



FULBRIGHT & JAWORSKI, LLP
IPT DOCKETING

Docketed ☒ Not Req'd ☐ Confirmation

Initials 1st JKS Initials 2nd LC

MAR 09 2007

Attorney JKS - Lovis

33 Docket No. P0293205

Action Req'd Date Due

Receipt of Letters P